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## Guidelines for Safe and Efficient Use

The mobile phone is one of the most exciting and innovative products ever developed. Your phone can help you to stay in touch with your office, your home, emergency services and others.

### Safety

#### Exposure to Radio Frequency Signals

Your wireless handheld portable telephone is a low power radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals.

In August, 1996, the Federal Communications Commission (FCC) adopted RF exposure guidelines with safety levels for handheld wireless phones. Those guidelines are consistent with the safety standards previously set by both US and international standards bodies:

- ANSI C95.1 (1992)\*
- NCRP Report 86 (1986)\*
- ICNIRP (1996)\*

Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 120 scientists, engineers, and physicians from universities, government health agencies, and industry

reviewed the available body of research to develop the ANSI Standard (C95.1).

The design of your phone complies with the FCC guidelines (and those standards).

*\* American National Standards Institute: National Council on Radiation Protection and Measurements; International Commission on Non-Ionizing Radiation Protection.*

#### Antenna Care

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the phone and may violate FCC regulations.

#### Phone Operation

**NORMAL POSITION:** Hold the phone as you would any other telephone with the antenna pointed up and over your shoulder.

**TIPS ON EFFICIENT OPERATION:** For your phone to operate most efficiently:

- Extend your antenna fully (where applicable).
- Do not touch the antenna unnecessarily when the phone is in use. Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than otherwise needed.

## Driving

Check the laws and regulations on the use of wireless telephones in the areas where you drive. Always obey them. Also, if using your phone while driving, please:

- Give full attention to driving – driving safely is your first responsibility.
- Use handsfree operation, if available.
- Pull off the road and park before making or answering a call if driving conditions so require.

In addition, Ericsson suggests the following safe driving tips if you are using your phone while driving:

- Get to know your wireless phone and its features such as speed dial and redial.
- Position your wireless phone within easy reach.
- Suspend conversations during hazardous driving conditions or situations.
- Do not take notes or look up phone numbers while driving.
- Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic.
- Do not engage in stressful or emotional conversations that may be distracting.
- Use your wireless phone to call for help.
- Use your wireless phone to help others in emergencies.



- Call roadside assistance or a special wireless non-emergency assistance number when necessary.

## Electronic Devices

Most modern electronic equipment is shielded from RF signals. However, certain electronic equipment may not be shielded against RF signals from your wireless phone.

### Pacemakers

The Health Industry Manufacturers Association recommends that a minimum separation of six (6") inches be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research.

Persons with pacemakers:

- Should ALWAYS keep the phone more than six inches from their pacemaker when the phone is turned ON.
- Should not carry the phone in a breast pocket.
- Should use the ear opposite the pacemaker to minimize the potential for interference.
- If you have any reason to suspect that interference is taking place, turn your phone OFF immediately.

### Hearing Aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may

Guidelines for Safe and Efficient Use

want to consult your service provider (or call the customer service line to discuss alternatives).

### ***Other Medical Devices***

If you use any other personal medical device, consult the manufacturer of your device to determine if it is adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information.

Turn your phone OFF in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

### ***Vehicles***

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

### ***Posted Facilities***

Turn your phone OFF in any facility where posted notices so require.

## **Aircraft**

FCC regulations prohibit using your phone while in the air. Switch OFF your phone before boarding an aircraft.

## **Blasting Areas**

To avoid interfering with blasting operations, turn your phone OFF when in a “blasting area” or in areas posted: “Turn off two-way radio.” Obey all signs and instructions.

## **Potentially Explosive Atmospheres**

Turn your phone OFF when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Areas with a potentially explosive atmosphere are often but not always clearly marked. They include fueling areas such as gasoline stations; below deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle engine.

## **For Vehicles Equipped with an Air Bag**

An air bag inflates with great force. DO NOT place objects, including both installed or portable wireless equipment, in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious bodily injury could result.

## Product Care and Operation

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Ericsson suggests you read and observe the following for safe care and operation of your phone:

- Do not allow children to play with your phone. They could hurt themselves or others, or could accidentally damage the phone. Your phone may contain small parts that could be detached and create a choking hazard.
- Do not expose your mobile phone to moisture or extreme temperatures.
- Only Ericsson original accessories are recommended. Failure to use them may result in loss of performance or product damage, and will void the warranty.
- Do not attempt to disassemble the product. Doing so will void warranty. This product does not contain consumer serviceable components. Service should only be performed by Authorized Service Centers.
- Do not allow objects to fall on, or liquids to spill on products.
- Connect AC (power supply) only to designated power sources as marked on the product.
- To reduce risk of damage, remove the electrical cord from the outlet by pulling the AC adapter rather than the cord.
- Make sure the electric cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.

- To reduce risk of electric shock, unplug the unit from the power source before attempting any cleaning. Once unplugged, use a soft cloth lightly dampened with water for cleaning.
- DANGER - Never alter the AC cord or plug. If the plug will not fit into the outlet, have a proper outlet installed by a qualified electrician. Improper connection can result in risk of electric shock.
- Don't continue to twist the antenna after it has been inserted. Excess twisting will damage the antenna.
- Be cautious if removing your antenna. A detached antenna may be a choking hazard for children.

How to use your phone for optimum performance with minimum power consumption:

- Hold the phone as you would any other telephone. While speaking directly into the mouthpiece, angle the antenna in a direction up and over your shoulder. If the antenna is extendable/retractable, it should be extended during a call.
- **Do not** hold the antenna when the phone is in use. Holding the antenna affects call quality, may cause the phone to operate at a higher power level than needed and shortens talk and standby times.



## Battery Information

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### ***New Batteries***

The battery packaged with your phone is not fully charged. For maximum battery capacity, use your charger to condition the battery.

### ***Recycling Your Battery***

Your phone manufacturer is a member of the Rechargeable Battery Recycling Corporation (RBRC), a non-profit service organization designed to assist in the recycling of rechargeable batteries. Many areas require the recycling of rechargeable batteries. In the U.S., call 1-800-822-8837 to find out how to recycle your battery. Outside the U.S., contact your local retailer for recycling instructions.

### ***Battery Use and Care***

A rechargeable battery has a long service life if treated properly. A new battery, or one that has not been used for a long period of time, should be conditioned before using your phone. Avoid recharging a fully-charged or almost fully-charged battery. This can result in the memory effect, which causes the battery to charge to less than its full capacity. If your phone shuts off due to low battery power, you should charge the battery within 24 hours for the battery to reach full capacity.

- Do not leave your battery where it may be subjected to extremely hot or cold temperatures. This could reduce the battery's capacity.

- Do not let the metal contacts on the battery touch another metal object such as keys in your pocket. This could short-circuit and damage the battery.
- Do not attempt to take a battery apart.
- Do not expose a battery to open flame. This could cause the battery to explode.
- Turn your phone OFF before removing the battery.
- Use only the AC/DC adapter supplied with your battery charger. Using a different adapter could be dangerous and will void your phone warranty.
- Never charge a battery when the ambient room temperature is below 50° F (10°C) or above 105° F (40°C).
- Do not allow the battery to be placed into the mouth. Battery electrolytes may be toxic if swallowed.

### ***Conditioning Your Battery***

To condition your battery, do the following:

- 1 Charge the battery until it is fully charged.
- 2 Disconnect the charger and leave your phone ON until the battery is completely discharged.

A beep will sound warning you that your battery is almost discharged. Wait until your phone turns OFF. Your battery is now completely discharged.

*Note!* The time required to discharge a battery varies based on the type of battery and the number and duration of your calls.

- 3 Completely discharge the battery and fully charge it, three times in succession, to complete the battery conditioning procedure.

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## Getting Started

Complete the following steps after you have removed your phone and its components from the box:

- 1 Attach the antenna to the phone (if not attached).
- 2 Attach the belt clip to your battery (optional).

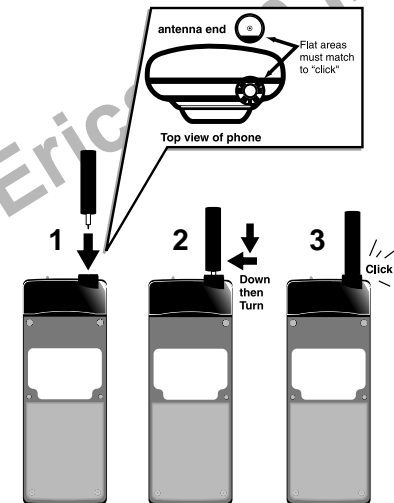
*Note!* The belt clip cannot be used with the ultra-slim battery.

- 3 Attach the battery to your phone.
- 4 Before using your phone, fully charge the battery using the charger provided with your phone.

### Attaching the Antenna (if not attached)

To attach the antenna, do the following:

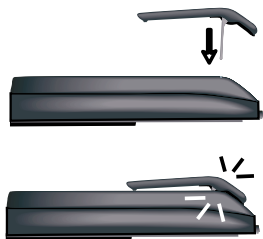
- 1 Insert the gold pin on the end of the antenna into the antenna connector located on the top of the phone, as shown in the illustration.



- 2 Press the pin into the connector and rotate the antenna until the antenna clicks and locks in place. There should be no gap between the antenna and the connector on the phone, and you should not be able to easily rotate the antenna after it locks in place. For best performance, do not frequently remove and replace the antenna.

## Attaching the Standard Belt Clip to the Battery

Insert the flat tab on the belt clip into the slot in the battery case as shown in this illustration. You will hear the belt clip click when it locks in place.



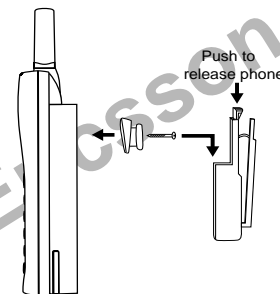
Once you have attached the belt clip to a battery, DO NOT try to remove the belt clip. Trying to remove the belt clip could damage the battery case.

*Note!* Using the belt clip is optional. A belt clip cannot be used with an ultra-slim battery.

## Attaching the Swivel Belt Clip to the Battery

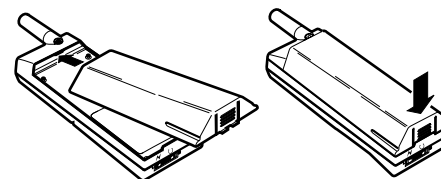
- 1 Align the screw-in tab between the two guides on the back of the phone, with thicker end on top.
- 2 Using a screwdriver, attach the tab to the phone.
- 3 Place the swivel belt clip on your belt or waistband.

- 4 Slide your phone, with tab, into the swivel belt clip. To remove, press the release mechanism on top of the clip and slide the phone up and out of the clip.

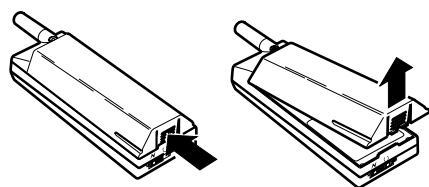


## Attaching the Battery to Your Phone

Attach the battery to your phone as shown in the following illustration.



Removing the battery is the reverse of attaching it to the phone.



## Charging the Battery

Your phone is packaged with one of the following battery chargers:

- A rapid charger
- A travel charger
- A multicharger

To charge your battery, follow the steps on the next page for the charger included with your phone. The label on the box in which your phone was packaged identifies the charger and battery included in the package. Fully charge the battery before you attempt to use your phone.

NEVER attach the charger to a phone that does not have a battery installed.

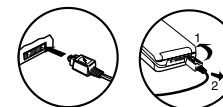
### Rapid Charger

The rapid charger supplies power to charge your battery while the battery is attached to your phone. You can make and receive calls while using the rapid charger, if you wish. To charge your battery with the rapid charger:

- 1 Plug the charger into a standard wall electrical outlet.
- 2 Hold the phone with the display and keypad up.
- 3 Hold the small plug on the charger cord so the lightning bolt symbol is up.
- 4 Align the small plug on the charger cord with the connector on the bottom of your phone. The connector on the phone is above the lightning bolt symbol.
- 5 Press the plug into the connector until the plug "snaps" into place.



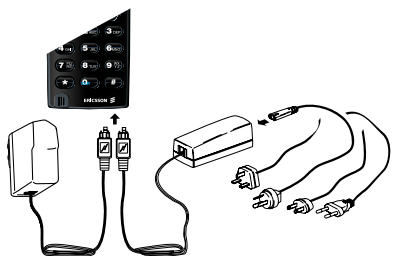
*Note!* To disconnect the charger, lift the plug connected to the phone upwards and pull it out.



### Travel Charger

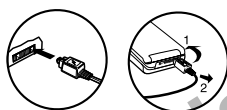
The travel charger supplies power to charge your battery while the battery is attached to your phone. You can make and receive calls while using the travel charger, if you wish. To charge your battery with the travel charger:

- 1 Using the appropriate cord supplied with the charger, attach the phone to the charger, as shown in the following illustration.



- 2 Using the other cord supplied, plug the charger into a standard electrical wall outlet.

*Note!* To disconnect the charger, lift the plug connected to the phone upwards and pull it out.



## Multicharger

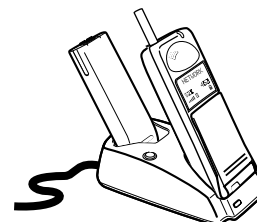
The multicharger can charge a battery attached to your phone (standing in the front compartment of the charger) and a separate battery (in the rear compartment of the charger).

The multicharger can also condition a battery by discharging the battery completely before beginning the charging cycle. The charger can charge both Nickel Metal Hydride (NiMH) and Nickel Cadmium (NiCd) batteries.

## Charging a Battery Attached to Your Phone

You can make and receive calls while using the multicharger to charge a battery attached to your phone, if you wish.

- 1 Using the lightning bolt symbols as your guide, align the small plug on the charger cord with the receptacle on the back of the charger.
- 2 Plug the connector on the charger cord into the receptacle on the back of the multicharger.
- 3 Plug the AC adapter on the power cord into a wall outlet.
- 4 Insert your phone into the front compartment of the multicharger, as shown in the following illustration.
- 5 The light on the left front corner of the multicharger comes on red when the phone is properly seated in the multicharger, and the phone's display indicates that the battery is charging.
- 6 Remove your phone from the multicharger when the light turns green, which indicates that the battery attached to your phone is fully charged.



*Note!* When the phone is attached to the charger, the phone backlight will turn off as soon as a call is received. This enhances phone and battery performance.

### ***Charging a Separate Battery***

- 1 Using the lightning bolt symbols as your guide, align the small plug on the charger cord with the receptacle on the back of the charger.
- 2 Plug the connector on the charger cord into the receptacle on the back of the multicharger.
- 3 Plug the AC adapter on the power cord into a wall outlet.
- 4 Insert the battery into the rear compartment of the multicharger. The multicharger's rear indicator light comes on red when the battery is properly seated in the rear compartment.
- 5 Remove the battery from the multicharger when the rear indicator light turns green, which indicates that the battery is fully charged.

*Note!* You can charge two batteries, one attached to your phone and one in the rear compartment, at the same time.

### ***Conditioning a Battery (Rear Slot Only)***

The multicharger can condition a battery by fully discharging the battery and then charging the battery to full capacity. Conditioning helps prevent the memory effect that can result from repeatedly charging a battery before the battery is fully discharged.

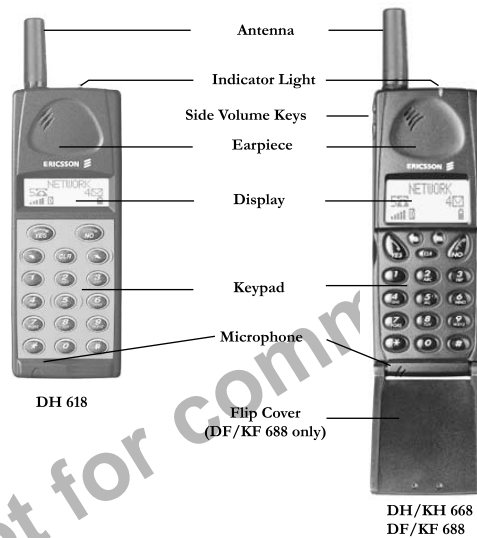
- 1 Using the lightning bolt symbols as your guide, align the small plug on the charger cord with the receptacle on the back of the multicharger.
- 2 Plug the connector on the charger cord into the receptacle on the back of the multicharger.
- 3 Plug the AC adapter on the power cord into a wall outlet.
- 4 Insert the battery into the rear compartment of the multicharger.
- 5 Press the light on the left rear side of the multicharger. The light remains a solid yellow while the multicharger discharges the battery. It can take anywhere from two to six hours to discharge the battery, depending on the battery type. The light turns a solid red when the multicharger begins charging the battery.
- 6 Remove the battery from the multicharger when the light turns green, which indicates that the battery is fully charged.

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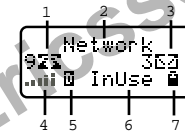


## Learning About Your Phone

Your digital wireless phone is similar in appearance to one of the illustrations below.



## Display Indicators



The display shown above represents the standby display.

- 1 Voice Mail Icon indicates that you have voice mail that you have not retrieved. The number indicates the number of messages.
- 2 Service Provider shows the name of your service provider.
- 3 Text Message Icon indicates that you have text messages that you have not retrieved. The number indicates the number of messages. An F indicates that text message memory is full.
- 4 Signal Strength Indicator shows the relative signal strength from the system. More bars indicate a stronger signal.
- 5 Mode Indicator shows whether your phone is operating in Digital (D), Analog (F), or Private (P) mode.
- 6 Status Indicator shows the operating status of your phone. For example, *InUse* is shown during a call.

- 7 Battery Strength Icon shows the relative strength of your battery. A full icon indicates a fully-charged battery.

## Indicator Light Functions




The color and state of the indicator light on top of your phone indicates the following conditions:



- 1 **Slow Flashing Green:** Phone is in standby.
- 2 **Rapid Flashing Green:** Phone is receiving a call.
- 3 **Steady Green:** Phone is receiving power from an external source, such as a travel charger.
- 4 **Flashing Red:** Low battery power alert.



## Accessing Your Native Language

- Press **4 5** to access the **Languages** submenu.
- Enter your security code at the prompt (default is 0000).
- Use **↵** or **⬅** to scroll through the list of available languages until the cursor (⌘) is next to the appropriate language.
- Press **YES** to store your selection.
- Press **CLR** to exit menu mode.

## Key Functions

 <b>YES</b>	<ul style="list-style-type: none"> <li>• Press to place a call.</li> <li>• Press to answer a call.</li> <li>• Press to store menu settings.</li> <li>• Press and hold (after entering a number) to make a calling card call.</li> <li>• Press and hold (during a call) to send displayed numbers as tones.</li> <li>• Press during a call to switch between calls (call waiting or three-way calling features must be activated by your service provider).</li> </ul>
 <b>NO/ON/OFF</b>	<ul style="list-style-type: none"> <li>• Press and hold to turn your phone ON or OFF.</li> <li>• Press to end a call.</li> <li>• Press to exit a menu without saving changes made in the menu.</li> <li>• Press to temporarily mute the ringer when receiving a call.</li> </ul>
 <b>CLEAR</b>	<ul style="list-style-type: none"> <li>• Press to erase the last digit entered from the display.</li> <li>• Press and hold to clear all digits or letters from the display.</li> <li>• Press and hold to delete numbers in memory and text messages.</li> <li>• Press to exit menu mode.</li> <li>• Press and hold during a call to mute the microphone (press and hold again to deactivate mute).</li> </ul>

 <b>UP ARROW</b>	<ul style="list-style-type: none"> <li>• Press to recall numbers stored in memory, when your phone is in standby mode.</li> <li>• Press twice to recall the last number called, when your phone is in standby mode.</li> <li>• Press to enter menu mode.</li> <li>• Press to scroll through menus and menu setting selections when your phone is in menu mode, or to scroll through stored numbers.</li> <li>• Press to scroll through messages.</li> <li>• Press and hold to go up through a message, one screen at a time.</li> <li>• Press to increase the earphone volume during a call.</li> </ul>
 <b>DOWN ARROW</b>	<ul style="list-style-type: none"> <li>• Press to enter menu mode.</li> <li>• Press to scroll through menus and menu setting selections when your phone is in menu mode, or to scroll through stored numbers.</li> <li>• Press to scroll through messages.</li> <li>• Press and hold to go down through a message, one screen at a time.</li> <li>• Press to decrease the earphone volume during a call.</li> </ul>

 <b>UPPER SIDE KEY (DH/KH 668 AND DF/KF 688 ONLY)</b>	<ul style="list-style-type: none"> <li>• Press to increase the earphone volume during a call.</li> <li>• Press to scroll upwards through menus and menu setting selections when your phone is in menu mode, or scroll through numbers stored in memory.</li> <li>• Use with the lower side key to switch between voice mail access screens.</li> <li>• Press to move upwards through memory fields, line by line, when you are in recall mode.</li> <li>• Press to temporarily mute ring tone.</li> </ul>
 <b>LOWER SIDE KEY (DH/KH 668 AND DF/KF 688 ONLY)</b>	<ul style="list-style-type: none"> <li>• Press to decrease the earphone volume during a call.</li> <li>• Press to scroll downwards through menus and menu setting selections when your phone is in menu mode, or scroll through numbers stored in memory.</li> <li>• Use with the upper side key to switch between voice mail access screens.</li> <li>• Press to move downwards through memory fields, line by line, when you are in recall mode.</li> <li>• Press to temporarily mute ring tone.</li> <li>• In general, the upper side key functions in the same way that the up arrow key (↶) functions, and the lower side key functions in the same way that the down arrow key (↷) functions.</li> </ul>

## Descriptions of Phone Model Features

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The table below lists the distinguishing features of the phones described in this manual.

	DH 618	DH/KH 668	DF/KF 688
Side Volume Keys	No	Yes	Yes
Phone Number Storage	50 numbers	130 numbers	200 numbers
Text Message Memory	5 messages	2KB maximum	2KB maximum
Last Dialed Memory	10 numbers	20 numbers	40 numbers
Active Flip Cover	No	No	Yes
Caller ID Log	10 numbers	20 numbers	40 numbers

## Basic Operations

### Turning Your Phone On and Off

---

To turn your phone on, press and hold **NO** until your phone beeps. The display and keypad backlighting come on for about 15 seconds.

To turn your phone off, press and hold **NO** until your phone beeps and the display goes blank.

### Making a Call

---

- 1 Enter the phone number you want to call by pressing the numeric keys. The number is shown in the display. Press **CLR** to erase a digit. Press and hold **CLR** to erase all digits.
- 2 Press **YES**. **Dialing** is shown in the display while your phone attempts to access the system. When your phone accesses the system, **IDLE** is shown on the bottom line of the display.  
If the Call Timer is enabled, the duration of the call (in minutes and seconds) is shown in the display.
- 3 When you finish your conversation, press **NO** to end the call (or close the flip, if your phone has an active, enabled flip cover).

### Automatic Redial

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If you try to place a call and the system is not available, your phone automatically redials the number every 15 seconds for three minutes if the **Auto Retry** feature is enabled.

### Answering a Call

---

When your phone receives a call, the ring tone sounds (unless you have disabled it through the **SOUNDS** menu), the words **Call Receive** flash in the display, the display and keypad backlighting flash, and the indicator light on top of the phone rapidly flashes green.

If you have Caller ID service from your system, the caller's phone number is shown in the display. If the caller's number is stored in the phone memory, the name stored with the number is also shown.

- 1 Press **YES** to answer the call. (If your phone has a flip cover, you can answer the phone by opening the cover, if enabled.) The words **Call Receive** are replaced by the call timer (if it is enabled).
- 2 Press **NO** to end the call (or close the flip, if your phone has an active, enabled flip cover).



## Temporarily Muting the Ring Tone

---

To temporarily mute the ring tone without answering the call, press either key on the side of your phone (if available), or press **NO** on the front keypad. **Call Receive** is still shown in the display, and you can still answer the call by pressing **YES**.

## Increasing or Decreasing Earpiece Volume During a Call

---

To increase the speaker volume during a call, press the upper key on the side of your phone (if available), or press  on the front keypad. To decrease the speaker volume during a call, press the lower key on the side of your phone (if available), or press  on the front keypad.

## Muting the Microphone During a Call

---

To mute the microphone during a call, press **CLR** for one second or longer. **Mic Muted** is shown in the display. Press **CLR** again (for one second or longer) to return to your call. If your phone has a flip that is not programmed to answer or end the call, then closing the flip will mute the call, and opening the flip will return to the call.

## Call Waiting

---

If you have call waiting service from your system, press **YES** to answer a call when you receive the call waiting signal. You can switch between the two calls by pressing **YES**. **DO NOT** press **NO** until you are ready to end both calls.

## Unanswered Calls




---

Your phone's display shows the number of calls you have received but did not answer. You can clear the number from the display by pressing any key or by turning the phone Off.

If Caller Number Identification (CNI) is available from your service provider, unanswered calls will be stored in the ReceiveLog section of the Call Data menu.

## Redialing the Last Called Number

---

Your telephone temporarily stores numbers you have previously called. To view these numbers, press  twice or **YES** once. The last number you called is shown in the display. Press  or  to scroll through the other numbers. You can place a call to a number shown in the display by pressing **YES**. You can also view the last numbers you called through the **MEMORY** menu.

You can delete a number from the **Last Dialed** list by pressing and holding **CLR** while the number is shown in the display.

## Super Dial

---

The **Super Dial** feature (when enabled through the **CALL SETUP** menu) gives you one-touch dialing for phone numbers stored in memory locations 1 through 9. See page for information on storing numbers in memory.

To use **Super Dial**, press and hold the numeric key (1 - 9) that corresponds to the memory location containing the number you want to call. For example, if you want to call the number stored in memory location 7, press and hold 7.

## Speed Dial

---

The **Speed Dial** feature (when enabled through the **CALL SETUP** menu) lets you quickly dial a phone number stored in memory.

To use **Speed Dial**, enter the number of the memory location containing the number you want to call, then press **YES**. For example, if you want to call the number stored in memory location 12, press 1, then press 2 and press **YES**.

## Stop and Pause Dialing

---

Stop and pause dialing lets you enter a group of numbers with stops and/or pauses between groups. This feature is useful when you need to dial a phone number and then another number, such as an access number for an answering machine or voice mail system.

A *stop* causes the phone to stop transmitting numbers until you press **YES**. You can enter a stop in a series of digits by pressing and holding # until S is shown in the display.

A *pause* temporarily suspends transmitting numbers for approximately two seconds before sending the next series. You can enter a pause in a series of digits by pressing and holding \* until P is shown in the display.

For example, if your office has a voice mail system that requires you to dial a phone number, followed by your extension, followed by an access code, you could enter the following: 555-1111S2222P33333 where 555-1111 is the phone number to enter your voice mail system. S is a stop. 2222 is your extension. P is a pause. 33333 is your access code.

When you press **YES**, your phone dials the number and then stops transmitting tones. When your voice mail system asks for your extension, press **YES** to transmit your extension. After a two second pause, your access code is automatically transmitted.

If the timing in your voice mail system does not allow you to use a pause, you can enter a stop instead of the pause.

You can also store groups of numbers with stops and pauses, such as the above example, in a memory location. You can then dial the numbers by entering the memory location and pressing **YES**.

## Emergency Calls

---

Your phone was programmed with an emergency number (911) when it was manufactured. The programmed emergency number can be dialed and called at any time, if there is a 911 system available, regardless of any call restrictions you have set through the **LOCKS** menu with the exception of the keypad lock feature which prohibits 911 access until unlocked. A representative from your service provider or the retail outlet where you purchased your phone should be able to change the emergency number in your phone, if a 911 system is not available in your service area.

If police, fire, or medical help is needed, dial 911 or your emergency number and press **YES**. Tell the dispatcher that you are calling from a wireless phone. Wireless 911 calls do not automatically provide emergency personnel with your name, location, or phone number. The dispatcher will want to know the following:

- 1 Your name and wireless phone number.
- 2 The nature of the emergency.

- 3 If police, fire, or medical assistance is needed.
- 4 The exact location of the emergency including cross streets, mileposts, or landmarks.
- 5 How many people are involved, their condition, and if help is being administered.

## International Calls

---

If allowed by your system, you can place international calls with your phone just as you would from any other phone. If you have difficulty completing international calls, check with your system operator for information.

## Caller Number Identification

---

If your system provides **Caller ID** service, your phone shows the phone number of an incoming call in the display. Also, if the number is one that you have stored in memory with a name, the name is shown with the phone number when your phone rings. If the **Caller ID** information is not available, the message **NO ID** is shown in the display. The word **Private** may be shown if the caller ID is restricted by the system.



**Low Battery Power Alert**

The low battery alert sounds when your battery is reaching its lowest operational power level. The words **Low Battery!** flash in the display, and the indicator light on top of your phone flashes red. When this happens, leave your phone turned On. The phone discharges the battery and then shuts itself Off. You should charge the battery within 24 hours so that the battery can charge to full capacity.

**Security Code**

Your phone has a security code that you must enter to gain access to certain functions, such as call restrictions and calling card numbers. The factory-programmed code is **0000**. You should change this code to provide maximum security for your phone.



**Display Messages**

Call Receive	Your phone is receiving a call.
Dialing	Your phone is dialing the number shown in the display.
InUse	You have a call active.
Call MM:SS	The elapsed time of your active call, in minutes and seconds.

Basic Operations

Low Battery	The battery is reaching its lowest operational power level.
System Busy!	Your system has no channels available. Try again later.
## Calls	The numbers of calls you have not answered.
Mic Muted	The microphone is muted.
Phone Locked	The phone is locked to prevent unauthorized use.
Keypad Lock	The keypad is locked to prevent unauthorized use.
Call is Restricted	You attempted to call a phone number that is restricted in the <b>LOCKS</b> Menu.
Charging Only	The phone is in charge-only mode and will not make or receive calls.
Charging Complete	Charging is finished.
Silent	The phone ringer is muted.
No Service	The phone cannot find an appropriate system.

**Summary of Basic Operations**

<b>To Do This:</b>	<b>Press:</b>
Turn your phone On	Press and hold <b>NO</b>
Turn your phone Off	Press and hold <b>NO</b>
Decrease earpiece volume during a call	 (or the lower side key, if available)
Increase earpiece during a call	 (or the upper side key, if available)

<b>To Do This:</b>	<b>Press:</b>
Answer a call	<b>YES</b> (or open the flip, if available)
End a call	<b>NO</b> (or close the flip, if available)
Enter menu mode	<b>↵</b>
Enter menu mode during a call	Press and hold <b>↵</b>
Go back one level in menu mode	<b>NO</b>
Exit menu mode	<b>CLR</b>
Scroll through menus or menu settings	<b>⬅</b> or <b>➡</b> (or the side keys, if available)
Erase the last digit/letter entered	<b>CLR</b>
Erase all digits/letters entered	Press and hold <b>CLR</b>
Call the number shown in the display	<b>YES</b>
Recall a recently dialed number from memory	<b>⬅ ⬅</b> or <b>YES</b> once
Save the text message you are reading	<b>YES</b>
Select a highlighted menu setting	<b>YES</b>
Switch Keypad Lock ON and OFF	<b>↵</b> then <b>*</b>
Switch Silent Mode ON and OFF	<b>↵</b> then <b>#</b>
Call number in display using calling card	Press and hold <b>YES</b>
Send DTMF tones during a call	Press and hold <b>YES</b>
Quick Access to Voice Mail	Press and hold <b>⬅</b> or <b>➡</b> , then <b>YES</b>
Quick Access to Text Messages	Press and hold <b>⬅</b> or <b>➡</b> , twice, then <b>YES</b>
Mute your voice during a call	Press and hold <b>CLR</b>
Mute the ringer when a call is received	<b>NO</b> (or the side keys, if available)

<b>To Do This:</b>	<b>Press:</b>
Access RCL mode (recall names, numbers and memory positions stored in memory)	<b>⬅</b> and press <b>YES</b>


## Using Menus

This chapter explains how to use your phone's menus. You should read this chapter thoroughly to understand how to navigate through the menu system and how to change menu settings.

Your phone's menus are an easy way for you to:



- Store and recall numbers in memory
- Check text messages and voice mail
- Set up call features
- Change ring tone and other sound settings
- Change other settings for your phone

### Opening Menus



To open the main menu, press . Main Menu and the names of the first two submenus are shown in the display. Pressing **NO** when the main menu is shown in the display returns your phone to standby mode.



To open one of the submenus:



- 1 Press  or  to scroll through the list of submenus. (If your phone has side keys, you can use them to navigate through menus. To scroll up, press

the upper side key, and to scroll down, press the lower side key.)

- 2 When the menu pointer (▸) is beside the submenu you want to open, press **YES**. The list of settings for the submenu is shown in the display.
- 3 You can scroll through the list of settings by pressing  or .
- 4 To back up to the list of submenus, press **NO**. Pressing **NO** from a list of submenu settings returns you to the main menu list.

### Changing Settings

Open the menus as previously described, then:

- 1 Press  or  to scroll through the list until the menu pointer is beside the setting you want to change.
- 2 Press **YES**. The choices available for the setting are shown in the display. The currently active choice is enclosed in brackets. Some settings have two choices, such as On and Off for the **Speed Dial** setting in the **CALL SETUP** menu. Other settings have a list of choices, such as the **Ring Pulse** setting in the **SOUNDS** menu.

- 3 Press **▼** or **↶** to scroll through the list of choices until the menu pointer is beside the choice you want. If the setting has only two choices, press either of these keys to switch between the two choices. The active choice is enclosed in brackets.
- 4 Press **YES** to store the choice you selected or press **NO** if you want to exit the menus without storing any changes you have made. If you store your changes, the words **SELECTION STORED!** are shown briefly in the display. The list of settings is then shown in the display.

## Exiting Menu Mode

Press **NO** at any menu level to go back one level. Press **CLR** to exit menu mode.

*Note!* If your phone receives a call while it is in Menu mode, the phone automatically exits menu mode to allow you to answer the call.

## Quickly Accessing Menus

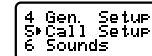
If you know the numbers associated with the submenu and setting you want to change, you can quickly access that submenu and setting by pressing **▼**, followed by the number of the submenu and then the number of the setting. For example, suppose you want to change the sound the keys on your phone make when you press

them. If the **SOUNDS** submenu is number 6, and the **Key Sounds** setting is number 3, you could press **▼**, then 6, then 3 to go directly to the choices for Key Sounds.

## Examples of Using Menus

### Turning Minute Minder ON

- 1 Press **▼**. The **Main Menu** list is shown in the display.
- 2 Press **▼** or **↶** until the menu pointer (**\***) is beside **Call Setup**.
- 3 Press **YES**. The **CALL SETUP** Menu settings are shown in the display.
- 4 Press **▼** or **↶** until the menu pointer is beside **MinuteMind**.
- 5 Press **YES**. The choices for **MinuteMind** (**ON** and **OFF**) are shown in the display.
- 6 Press **▼** or **↶** until **[ON]** is enclosed in brackets.
- 7 Press **YES**. **SELECTION STORED!** is shown briefly in the display, then the settings list for the **CALL SETUP** Menu is shown.
- 8 Press **CLR** to exit menu mode.



### Changing the Volume of the Ring Tone

- 1 Press **▼**. The main menu list is shown in the display.

Using Menus

- 2 Press **↓** or **↶** until the menu pointer (▸) is beside **Sounds**.
- 3 Press **YES**. The **SOUNDS** menu settings are shown in the display.
- 4 Press **↓** or **↶** until the menu pointer is beside **Ring Volume**.
- 5 Press **YES**. The list of choices for **Ring Volume** are shown in the display.
  - Off
  - High
  - Escalating
  - Medium
  - Low
  - Extra-Low
- 6 Press **↓** or **↶** until the menu pointer is beside the **Ring Volume** choice you want. As you scroll through the choices, the phone sounds the ring volume for each choice.
- 7 Press **YES** to store your choice. **SELECTION STORED!** is shown briefly in the display, then the **Sounds** menu settings are shown.
- 8 Press **CLR** to exit menu mode.

5 Call Setup  
 6 Sounds  
 7 Call Data

## Menu Overview

The following list shows the menus and setting for your phone.

<b>1 Memory</b>	1 Store Mem. 2 RCL Mem. 3 StoreScrd 4 RCL ScrPad 5 RCL LastNo 6 MemoryUsed
<b>2 Messages</b>	1 UnreadText 2 Old Text 3 Delete All 4 VoiceMsgs1 5 VoiceMsgs2
<b>3 System Opt</b>	1 Sys Select 2 Find Net 3 Home Only (appears only when roaming) 4 Phone No. 5 SystemInfo 6 Privacy 7 Time/Date
<b>4 Gen. Setup</b>	1 KeypadLock 2 Back Light 3 Contrast 4 Greeting 5 Language+ 6 MenuReset+

**5 Call Setup**

- 1 Super Dial
- 2 Speed Dial
- 3 Answer Opt
- 4 Call Timer
- 5 MinuteMind
- 6 Auto Area
- 7 AutoPrefix
- 8 Auto Retry
- 9 Tone Send
- 10 AccessTone

**6 Sounds**

- 1 SilentMode
- 2 Msg Tone
- 3 Key Sound
- 4 Key Volume
- 5 Ear Volume
- 6 SpeakerVol
- 7 Ring Pulse
- 8 Ring Pitch
- 9 RingVolume

**7 Call Data**

- 1 ReceiveLog
- 2 Last Time
- 3 Elapsed
- 4 Call Count
- 5 Time Count

**8 Locks+**

- 1 Auto Lock
- 2 Dialing
- 3 Call Cards
- 4 Receiving
- 5 Sec. Code

**9 Call Cards+**

- 1 CardSelect
- 2 Card1 Setup
- 3 Card2Setup

## Storing and Recalling Numbers

You can store phone numbers and associated names in your phone's memory to use for **Recall**, **Speed Dial**, and **Super Dial**. Each number you store can be up to 32 digits in length, and any names you store can be up to 24 characters in length.

*Note!* The number of phone numbers that your phone can store is based on each number containing 12 digits and having an 8-character name stored with the number. Storing longer numbers and names reduces the amount of memory available and the actual numbers you can store. You can view the percentage of memory used and available through the **MEMORY** menu.

The upper side key functions in the same way that the up arrow key (↶) functions, and the lower side key functions in the same way that the down arrow key (↷) functions.

### Storing a Number and Name in Memory

There are two ways you can do this:

- 1 Store a number using the **MEMORY** menu.
- 2 Store a number already shown in the display.

### Storing a Number by Using the Memory Menu

- 1 Press ↷ to access menu mode.
- 2 Press ↶ or ↷ until the menu pointer (⌘) is beside **Memory**.
- 3 Press **YES** to open the **MEM-ORY** menu.
- 4 Press ↶ or ↷ until the menu pointer is beside **Store Mem.**
- 5 Press **YES** to open the **Store Mem** selection. The next open memory location is shown in the display, similar to this illustration.
- 6 Enter a name you want associated with this telephone number. The following table shows which keys to press and the number of times you must press them to enter letters.
- 7 Press ↶ to move the cursor to the **NO:** line in the display.
- 8 Enter the phone number you want to store.



⌘Main Menu⌘  
1 Memory  
2 Messages



Name: ■  
NO: ■  
STORE : 000

*Note!* To enter letters from the keypad, you must press a key from one to five times, depending on which letter you want to enter.

Press This	Number of Times				
	One	Two	Three	Four	Five
1	space	&	1		
2	A	B	C	2	
3	D	E	F	3	
4	G	H	I	4	
5	J	K	L	5	
6	M	N	O	6	
7	P	Q	R	S	7
8	T	U	V	8	
9	W	X	Y	Z	9
0	0				
*	,	'	"	*	
#	-	.	?	#	

- Press **YES** to store the number. Stored in memory! is shown in the display.

## Storing a Number Shown in the Display

- Enter a number.
- With the number shown in the display, press **▼** to access menu mode.
- Press **▼** or **↶** until the menu pointer is beside **Memory**.

- Press **YES** to open the **MEMORY** menu.
- Press **▼** until the menu pointer is beside **Store Mem**.
- Press **YES** to open the **Store Mem** selection. The number is shown in the **NO#** line of the Store Mem display.
- If you want to enter a name to be associated with this number, enter it now on the **Name#** line.
- Press **YES** to store the number in memory.

## Specifying a Memory Location

If you want to store a phone number in a specific memory location, follow the previous steps for entering the number and name, then press **▼** to move the cursor to the **STORE** line. Enter the memory location number.

Phone numbers stored in locations 1 through 9 can be used with the **Super Dial** feature. All 1- and 2-digit memory locations can be used with the **Speed Dial** feature.

## Storing a Number in Secure Memory

A number stored in secure memory cannot be recalled unless you enter the correct security code. To store a number in secure memory, follow the previously described steps for entering a name and number, then press and hold **YES**. The phone prompts you to enter your security code. If you enter the correct code, the



number is stored and **Number Stored Securely in Memory** is shown in the display.

### Recalling a Number Using the Up Arrow

- 1 Press **↩**. The display should look similar to this illustration.

- 2 To recall by name, press the key which represents the first letters of the name.



OR

To recall by number press **↵** to move the cursor to the **RECALL:** line and enter the memory location where the number is stored.

- 3 Press **YES**.

### Recalling Previously Dialed Numbers

For instructions on how to recall previously dialed numbers, see “Redialing the Last Called Number” on page 18.

### Recalling a Number Using the Memory Menu

- 1 Press **↵** to access menu mode.
- 2 Press **↵** or **↩** until the menu pointer is beside **Memory**.
- 3 Press **YES** to open the **MEMORY** menu.

- 4 Press **↵** or **↩** until the menu pointer is beside **RCL Mem.**

- 5 Press **YES** to open the **RCL Mem.** display. You can recall a number in memory by the location number or by name.

- 6 To recall by name, enter the letters of the name in the **Name:** line. You can enter just a few letters of the name or the complete name. If you enter just a few letters, the phone finds the first name in memory that begins with the letters you entered.

OR

If you want to search by the location number, press **↵** until the cursor is on the **RECALL:** line and enter the number. The number is shown in the display.

- 7 You can place a call to the number in the display by pressing **YES**.

### Recalling a Number From Secure Memory

- 1 Follow the previously described steps for opening **RCL Mem.** in the **MEMORY** menu.
- 2 Press **↵** until the cursor is on the **RECALL:** line.
- 3 Enter the location of the number stored in secure memory.
- 4 Press **↩**. **Security Code:** is shown in the display.
- 5 Enter your security code.

- 6 If you enter the correct security code, the number is shown in the display.

## Altering a Number in Memory

---

You can alter or delete a number in memory by doing the following:

- 1 Recall the number as previously described.
- 2 When the number is shown in the display, press **↵** or **↶** to move the cursor to the No# line.
- 3 To add digits to the end of the number, just enter the digits.
- 4 To replace digits, press **CLR** to erase the digits you want to change and then enter the new digits.
- 5 Press **YES** to store the altered number. The message **Memory 000 Now Occupied Replace?** is shown in the display.
- 6 Press **YES** to store the altered number. The message **Same name in memory 000 Save anyway?** is shown in the display.
- 7 Press **YES** to replace the number you previously stored with the modified number.

## Erasing a Number From Memory

---

- 1 Press **↵**. The main menu is shown in the display.

- 2 Press **↵** or **↶** until the menu pointer is beside **Memory.**
- 3 Press **YES**. The **MEMORY** menu is shown in the display.
- 4 Press **↵** or **↶** until the menu pointer is beside **RCL Mem.**
- 5 Press **YES**.
- 6 Press **↵** or **↶** until the number and name you want to erase is shown in the display.
- 7 Press and hold **CLR**. **Erase memory? Location xxx** is shown in the display.
- 8 Press **YES** to erase the number from memory. **Memory is erased!** is shown briefly in the display.

## Message Services

Your phone can receive two types of message service (text messages and voice mail) if these services are available from your service provider. If you subscribe to either or both services, callers can leave you text messages or voice mail. Your service provider then transmits the text messages and voice mail notifications to your phone.

### Text Message Service

Your phone supports three message categories: *Normal*, *Urgent*, and *Emergency*. The actual tagging of the text message is dependent on the system used by your service provider. Your service provider transmits messages to your phone. If your phone is ON, it receives the messages as described below. If your phone is not turned ON, your service provider retains the messages and transmits them again later.

*Note!* The DH 618 holds up to five messages. The DH/KH 668 holds up to ten messages or a maximum of 2KB of message text. The DF/KF 688 holds over ten messages that can total 2KB of message text.

When reviewing text message, the status of a text message is shown using the following letters:

- R - Read, text message has been read but not saved.
- S - Saved, text message has been read and saved.

- U - Unread, text message has not been read.

### Normal Messages

If your phone is turned ON when it receives a normal text message, your phone sounds a brief tone and a message similar to the one in this illustration is shown in the display. You have a choice of reading the message immediately by pressing YES, or reading it later by pressing NO. Pressing NO clears the message received alert from the display and places a number and icon in the display to remind you of your messages.

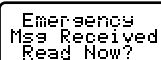
### Urgent Messages

If your phone is turned ON when it receives an urgent text message, your phone sounds a brief tone and a message similar to the one in this illustration is shown in the display. As with normal messages, you have a choice of reading the message immediately or reading it later.

*Note!* Urgent messages are always shown before normal messages, regardless of the order in which they were received.

## Emergency Messages

If your phone is turned ON when it receives an emergency message, your phone sounds two brief tones, and a message similar to the one in this illustration is shown in the display for a few seconds.



Emergency  
Mss Received  
Read Now?

## Reading Text Messages Immediately

When a message received notice is shown in the display, you can read the message by pressing **YES**. You can scroll through the message one line at a time by pressing and releasing **↵** or **⬅**. You can scroll up or down through the message three lines at a time by pressing and holding **↵** or **⬅**.

## Call-Back Messages

Some text messages you receive may be *call-back messages*. A call-back message contains one or more phone numbers included by the person sending the message. If you press **YES** while reading a call-back message, a screen similar to the one shown here appears.



CALL ?  
555-1212

To dial the displayed number, press **YES**. (To place a calling card call to the displayed number, press and hold **YES**.) If you do not wish to call the displayed number, press **NO** to resume reading the actual message.

The up and down arrows in the top right part of the display indicate that there is more than one number in the

message. (The arrows would not appear if there were just one number.) You can scroll through the available numbers by pressing **↵** or **⬅**. When you see the desired number, press **YES** to dial that number.

If you do not call back the number in the message, you have the same options for saving and deleting the message as you do with other text messages.

If you like, you can edit a displayed call-back number before you make the call. In the display, the cursor appears in reverse video, and it is initially positioned at the far left of the second line. In editing the number, you can:

- Enter a number at the cursor location by pressing a number key. If a digit is already in the cursor location, that digit, as well as all digits to its right, move one position to the right.
- Clear the digit at the cursor location by pressing **CLR**.
- Move the cursor position without clearing anything by pressing and holding **↵** or **⬅**.

## Receiving Messages While on a Call

When you receive a message while on a call, your phone sounds a brief tone and a message similar to the one in this illustration is shown in the display. Press **YES** to display the incoming message, or press **NO** to continue talking and have the message treated as an unread message.



MESSAGE RECD  
YES-Read Now  
NO -Wait

You cannot receive messages during a call if the message memory is full.

### Retrieving Unread Text Messages

If you have messages that you have not read, a number and the text message icon are shown in the display. If the letter F is shown with the icon, your phone's text message memory is full.

To read these messages:

- 1 Press **▼** to enter menu mode.
- 2 Press **▼** or **↶** until the menu pointer is beside **MESSAGES**.
- 3 Press **YES** to open the **MESSAGES** menu.
- 4 Press **▼** or **↶** until the menu pointer is beside **UnreadText**.
- 5 Press **YES** to open the list of messages.
- 6 Press **▼** or **↶** until the menu pointer is beside the message you want to read.
- 7 Press **YES** to open the message. Once the message is open, you can scroll through the message one line at a time by pressing **▼** or **↶**. You can scroll up or down through the message three lines at a time by pressing and holding **▼** or **↶**.

### Retrieving Saved Text Messages

To read saved messages:

- 1 Press **▼** to enter menu mode.
- 2 Press **▼** or **↶** until the menu pointer is beside **MESSAGES**.
- 3 Press **YES** to open the **MESSAGES** menu.
- 4 Press **▼** or **↶** until the menu pointer is beside **Old Text**.
- 5 Press **YES** to open the list of messages.
- 6 Press **▼** or **↶** until the menu pointer is beside the message you want to read.
- 7 Press **YES** to open the message. Once the message is open, you can scroll through the message one line at a time by pressing and releasing **▼** or **↶**. You can scroll up or down through the message three lines at a time by pressing and holding **▼** or **↶**.

### Saving and Deleting Text Messages

After you have retrieved and read a text message, you can:

- **Save the message to memory:**  
Press and hold **YES**.
- **Delete the message:**  
Press and hold **CLR**.
- **Move to the next message:**  
Press 1.
- **Return to the previous message:**  
Press 3.

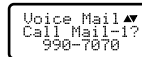
*Note!* Saved text messages are retained. Unsaved text messages are retained only until the space is needed for new messages.

## Voice Mail Service

Your phone can receive voice mail notification when it is turned ON. If your service provider transmits the notification and your phone is turned OFF, you will receive notification the next time you turn your phone ON.

### Receiving Voice Mail When Your Phone Is in Standby

If your phone is turned ON and is in standby when it receives a voice mail notice, your phone sounds a brief tone. If you have previously stored a home-system access number, a message similar to the one in this illustration is shown in the display.



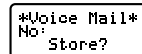
Voice Mail  
Call Mail-1?  
990-7070

To call the number shown, press **YES**. (To make a credit card call, press and hold **YES**.) To return to standby mode, press **NO**. To access a non-home system access number (if you have previously stored it), press **↵**, **↵**, or either of the side volume keys (if available on your phone). You will then see a message similar to the one in this illustration.



Voice Mail  
Call Mail-2?  
609-7070

If you have not stored an access number, or if you have stored only one access number and attempt to



\*Voice Mail\*  
No Store?

scroll to another number, you will see **Access Number Not Stored** when you receive a voice mail notice. After the **Access Number Not Stored** screen has been displayed for five seconds, your phone displays another screen, similar to the one in this illustration, that gives you the opportunity to store an access number.

The number is stored as Mail-1 if no access number had been previously stored, or as Mail-2 if one number had already been stored. After you store the number, your phone displays a screen asking if you want to call that number.

### Receiving Voice Mail During a Call

If your phone receives a voice mail notice during a call, a brief tone sounds and **Voice Mail Received** is briefly shown in the display.

After you end your call, a number and the voice mail icon are shown in the display.

### Listening to Voice Mail When the Icon Is Shown in the Display

If there is a number beside the voice mail icon in the display, you have voice mail messages that you have not heard. To listen to these voice mail messages:

- 1 Press **↵** to enter menu mode.
- 2 Press **↵** until the menu pointer is beside **Messages**.
- 3 Press **YES** to open the **MESSAGES** menu.

- 4 Press **↵** until the menu pointer is beside either **VoiceMss1** or **VoiceMss2**.
- 5 To access your home-system access number, move the cursor to **VoiceMss1** and press **YES**. To access your non-home system access number, move the cursor to **VoiceMss2** and press **YES**. (You can make a credit card call by pressing and holding **YES**.)
- 6 If you have not stored your voice mail number, enter it now.
- 7 Press **YES** to call your selected access number.

### Storing Your Voice Mail Number

You can store a home-system voice mail access number and a non-home system access number. It is a good idea to store your voice mail access number(s) so that a number automatically displays when you receive a voice mail notice.

- 1 Press **↵** to enter Menu mode.
- 2 Press **↵** until the menu pointer is beside **Messages**.
- 3 Press **YES** to open the **MESSAGES** menu.
- 4 To store a home-system access number, move the cursor to **VoiceMss1** and press **YES**. To store a non-home system access number, move the cursor to **VoiceMss2** and press **YES**.
- 5 Enter your voice mail phone number on the **NO:** line.



- 6 Press **YES**. **SELECTION STORED!** is shown in the display.
- 7 Press **NO** twice to exit Menu mode.

### Quick Access to Text and Voice Mail Messages

The Quick Message feature lets you quickly read text messages or retrieve voice mail messages. To access the Quick Message feature, press and hold either **↵** or **↶**. What happens next depends on which types of messages are available:

- If *only* text messages are waiting, **Read Text Messages?** is shown in the display. Press **YES** to go directly to the **Read Text Message Menu**. Press **NO** to return to standby mode.
- If only voice mail messages are waiting, **Get Voice Mail Mss?** is shown in the display. Press **YES** to call your voice mail access number.
- If both text *and* voice mail messages are waiting, your phone displays a modified version of the **Read Text Messages?** screen, as shown in the illustration. In the upper right corner of this screen are two arrows, which indicate that both voice and text messages are available. From here, you can access the **Read Text Message Menu** by pressing **YES**, or you can go to the **Get Voice Mail Mss?** screen by pressing **NO**, **↵**, **↶**, or



either of the side volume keys (if available on your phone). The Read Text Messages? and Get Voice Mail Mssg? screens are circular. To switch back and forth between the two screens press **NO**, , , or either of the side volume keys (if available on your phone).



## Menu Descriptions

Press **▼** to access the menus.

Press **▼** or **↵** (or use your phone's side keys, if available) to scroll through menus, functions in menus, and settings in a function.

Press **YES** to select a menu, function, or setting which is beside the menu pointer (**\***).

Press **NO** to go back one level in the menu structure.

Press **CLR** to exit the menus completely.

### Memory Menu

---

The **MEMORY** menu contains the following choices for storing and recalling numbers.

#### Store Mem

Use **Store Mem** to store a phone number and an accompanying name.

#### RCL Mem

**RCL Mem** lets you recall a phone number by the name stored with the number or by the memory location number. You can also access **RCL Mem** by pressing **↵**.

#### StoreScrpd

Use **StoreScrpd** to store, in the scratch pad memory, a number shown in the display.

#### RCL ScrPad

**RCL ScrPad** lets you recall a number stored in the scratch pad memory. You can also view the numbers in the scratch pad memory by pressing **↵**, then **#**.

#### RCL LastNo

Use **RCL LastNo** to view the list of numbers you previously called. You can also view the last numbers called by pressing **↵** twice.

#### MemoryUsed

**MemoryUsed** shows you the percentage of the phone's memory that is occupied.

### Messages Menu

---

The **MESSAGES** menu contains the following choices for accessing services that may be available from your provider.

### UnreadText

If you have text message service from your provider, this menu feature lets you read your unread text messages.

### Old Text

If you have text message service from your provider, this menu feature lets you read your old text messages.

### Delete All

This function lets you delete all text messages, both old and new, at once.

### VoiceMsgs1

If you have voice mail service from your provider, this menu feature lets you access your home-system access number.

### VoiceMsgs2

If you have voice mail service from your provider, this menu feature lets you access your non-home system access number.

## System Options Menu

---

The **SYSTEM OPT** menu contains the following choices for selecting system preferences. (Selections available are dependent on your provider.)


### Sys Select

This feature allows you to manually select a system from which to obtain service, instead of having the phone automatically select an available system. This can include your public, home, system as well as Private System Identifiers (PSIDs) that have been programmed into your phone. This function is particularly useful if you have access to more than one system. Only systems that are currently available can be selected. This varies depending on your geographic location. Once a system is selected, the phone remains locked onto that system until:

- Signal strength no longer permits.
- The phone is turned off.
- You select Normal in this menu.
- You receive or make a call.

### Find Net

Your phone should be configured by your service provider for optimal network selection during roaming. If your service provider allows, you can override the pre-configured selection by following these steps:

- 1 Press  to access the menu system.
- 2 Scroll down to Level 3- **System Opt** and select by pressing **YES**.
- 3 Scroll down to **Find Net**.
- 4 Select **Find Net** by pressing **YES**. A list of available public systems will be displayed (if any are found).

- 5 Scroll through the list of networks and press **YES** when the desired network is selected. The phone will attempt to camp on the system. If the phone cannot acquire the system, a message will be displayed, followed by the list of available systems.
- 6 Press **NO** to return to the previous screen.

If a list of available systems reappears, follow these steps:

- 1 Select another items from the list.
- 2 Press **NO** to return to current system.

*Note!* Continuous searches could drain the battery.

### Home Only

The availability of the **Home Only** submenu item is dependent on your provider's phone setup. Home Only lets you have your phone look only for your home system when you turn on the phone. The phone does not search for other systems if your home system is not available.

### Phone No.

The **Phone No.** function shows you the phone number programmed into your phone.

The ability to add a second subscription is an optional feature that may be allowed by your service provider. If available, this feature offers you the option of adding a second telephone number to your mobile phone so that is will be more useful in areas to which you frequently roam. Your second subscription may be obtained from your current wireless service provider or from a second service provider. It is particularly useful where interna-

tional roaming is not yet available. If you have multiple subscriptions, you may switch phone numbers by following these steps:

- 1 Press **▼** to access the menu system.
- 2 Scroll down to Level 3 - **System Opt** and select by pressing **YES**.
- 3 Scroll down to **Phone No** and press **YES**.
- 4 Enter your security code.
- 5 Two phone numbers will be displayed with the current one on top (if dual nam option is available and programmed).
- 6 Scroll down to the second one and press **YES** to switch to that number. NO displays **Current Network Active**.
- 7 Press **NO** to return to previous screen.

### SystemInfo

This feature displays the available digital channel services. If no services are available, the information fields are blank. If the phone is locked in analog mode, or if the information cannot be obtained, the message **System Info Not Available** is shown. **YES** indicates feature capability; **NO** means the feature is not available.

### Privacy

If your service provider offers digital voice encryption, use this function to request voice privacy service.

Voice Privacy service is not available in all areas. If voice privacy is active, the digital voice privacy indicator text, a reverse text P, is shown in the display.

If voice privacy is requested but not granted, your phone sounds a Voice Privacy Not Active Tone. The tone sounds at the beginning of the call, and then every 30 seconds during the call, as a reminder. You can turn the tone feature off through the **SOUNDS** menu.

### Time/Date


This function lets you retrieve the time and date from the system, if available from the service provider.

## General Setup Menu

---


The **GEN. SETUP** menu lets you customize your phone to suit your personal preferences.

### KeypadLock

You can lock the keypad so that pressing keys has no effect. This feature is useful in circumstances when the keys may be accidentally pressed, such as when you are carrying your phone in a briefcase or purse. You can also activate the keypad lock by pressing  and then \*.

The keypad remains locked until you do one of the following:

- Replace the battery.

- Turn the phone off by pressing and holding **NO**, and then turn the phone back on by again pressing and holding **NO**.
- Press , then \*.

*Note!* The keypad lock function prohibits emergency number (911) access.

### Back Light

You can set the display and keypad backlighting to stay on continuously or automatically turn off when the phone is in standby mode.

### Contrast

You can change the phone display contrast setting. The contrast settings range from 1 to 5, with 5 being the highest contrast level.

### Greeting

Each time the phone is turned on, you can have the phone display a welcome greeting that you enter yourself. The alphanumeric keypad displays both letters and numbers.

You can enter a three-line, 36-character message (12 characters per line). The message displays when you turn on the phone. The greeting function is automatically turned off if no characters are entered.

## Language

You can choose between four different languages (American English, Canadian French, Latin American Spanish, and Brazilian Portuguese) for text shown in the display. You are prompted for the security code to gain access to this function.

*Note!* The supported languages vary according to market.

### Accessing Your Native Language

- Press **4 5** to access the **Languages** submenu.
- Enter your security code at the prompt (default is 0000).
- Use **↵** or **⬅** to scroll through the list of available languages until the cursor (⌘) is next to the appropriate language.
- Press **YES** to store your selection.
- Press **CLR** to exit menu mode.

### Menu Reset

**Menu Reset** allows you to quickly return your phone to its factory settings for Sound and Setup functions. You are prompted for the security code to gain access to this function. Press **YES** to return the phone to its factory settings.

*Note!* Remember that the security code also changes back to the original factory setting (0000).

## Call Setup Menu

The **CALL SETUP** menu contains the following choices for enhancing the use of your phone.

### Super Dial

Turning On **Super Dial** allows you to dial a number stored in memory locations 1 through 9 by pressing and holding the numeric key corresponding to the memory location.

### Speed Dial

Turning On **Speed Dial** allows you to dial a number stored in a memory location by entering the one or two-digit location number and pressing **YES**.

### Answer Opt

The **Answer Opt** function lets you select to answer calls by pressing either **YES** or pressing any key except **NO**. If you are using your phone in a Vehicle Handsfree cradle, you can set your phone to let you press any key to answer the phone, or you can set your phone to automatically answer after two rings.

The DF/KF 688 allows you to answer the phone in the following ways:

- Open the flip or press **YES**.
- Open the flip or press any key.

If you are using the DF/KF 688 in a Vehicle Handsfree cradle, you can set your phone to answer in the following ways:

- Open the flip and press any key.
- Auto answer after two rings.

### Call Timer

**Call Timer**, when turned On, shows the approximate duration of the current call. The timer shows minutes and seconds, and resets after 99 minutes.

### Minute Mind

**Minute Mind**, when turned On, times your calls by sounding a short beep in the ear piece or handsfree loud-speaker about ten seconds before each full minute during a call.

### Auto Area

You can store an area code which **Auto Area** automatically adds to the 7-digit number you dialed. Enter the area code on the display, then select **On** to activate the feature.

*Note!* Auto Area does not add the area code to numbers shown in the display by Caller ID.

### Auto Prefix

You can store a 1- to 12-digit prefix which the **AutoPrefix** function automatically adds to a dialed number. When you dial a 4- or 5-digit phone number, the prefix

is automatically added to the number. To send a number to office extensions, store the 3-digit prefix in the **Auto Prefix** function. You need only to dial the last four or five digits of the number.

For example, if you save 123 as the auto prefix and the function is turned on, to call 123-7654 just dial 7654. The prefix 123 is automatically added. The auto prefix is not added for numbers longer than five digits or to numbers that start with \*.

### Auto Retry

When enabled, the **Auto Retry** function repeats a call attempt every 15 seconds for up to three minutes if the call cannot be delivered through the system.

### Tone Send

When enabled, the **Tone Send** function allows your phone to send DTMF tones during a call. This allows operations like electronic banking and other DTMF tone operated activities. When **Tone Send** is turned OFF, your phone *does not* send DTMF tones.

### Access Tone

When enabled, **AccessTone** sounds three short beeps to indicate your outgoing call has connected to the system.

## Sounds Menu

---

The **SOUNDS** menu contains the following choices for setting the different volumes and sounds for ringing, keypad, earpiece, and handsfree kits.

### SilentMode

When **SilentMode** is enabled, your phone does not make any keypad or ringing sounds. You can quickly activate **SilentMode** by pressing **⏏**, then **#**. Press **⏏**, then **#** again to disable **SilentMode**. The word **Silent** is shown in the display when the phone is in **Silent Mode**.

### Msg Tone

This feature allows you to turn on or off the tone that sounds when an incoming text message is received or a message waiting signal is received.

### Key Sound

**Key Sound** allows you to choose the sound made when you press keys: a click, a continuous tone, a quick tone burst, or no sound at all.

### Key Volume

**Key Volume** allows you to select the volume level of the sounds made when you press keys.

### Ear Volume

**Ear Volume** allows you to adjust the volume of the earpiece using the menu setting. You can also adjust the volume during a call by pressing **⏏** or **⏏**, or by using the side volume keys (if available on your phone).

### SpeakerVol

**SpeakerVol** allows you to select the speaker volume of handsfree accessories.

### Ring Pulse

**Ring Pulse** allows you to choose the type of tone or song for the ring pulse. Each tone or song is demonstrated as you scroll through the selections. There is also a System Set selection, which is controlled by the system.

### Ring Pitch

**Ring Pitch** allows you to adjust the ring pitch from Low, Medium, High, or Mixed, and demonstrates those tones as you scroll through the selections. There is also a System Set selection, which is controlled by the system.

### Ring Volume

**Ring Volume** allows you to set the level of the ring volume from Extra Low, Low, Medium, High, Escalating, or Off. The Escalating volume setting rises in steps from the lowest to the highest level as the phone continues to ring.

## Call Data Menu

---

The **CALL DATA** menu contains the following choices for providing information on calls that have been made from the phone.

### ReceiveLog

If you have Caller ID service from your service provider, this menu lists the last 10 (DH 618), 20 (DH/KH 668), or 40 (DF/KF 688) calls received with caller ID (the latest call appears first). Press **YES** to dial a number shown in the display.

*Note!* The **Auto Area** feature does not insert the area code in a phone number shown in the display by **ReceiveLog**.

Use the arrow keys to scroll through the list of received calls. If the received number is stored in memory with a name, the name is also shown in the display.

### Last Time

The **Last Time** function indicates the approximate duration of the last call, in minutes and seconds.

### Elapsed

Elapsed time meter shows the hours and minutes that have been used. The elapsed time cannot be reset. Press **NO** to exit.

## Call Count

The **Call Count** function indicates the total number of calls made under the current phone number is shown in the display. Press **↵** to display the home count. Press **↵** again to return to the total count display. To reset from standby mode, press **74** **↵** **↵**, and then press **YES** to **Reset**.

## Time Count

The **Time Count** function shows the approximate total time that the phone has been in use. Press **↵** to display the home count. Press **↵** again to return to the total count display. To reset from standby mode, press **75** **↵** **↵**, and then press **YES** to **Reset**.

## Locks Menu

---

The **LOCKS** menu contains the following choices for enabling protection services in the phone to limit its use. You can select the lock options most useful for your desired level of phone security. You must enter your security code before you can open the **LOCKS** menu.

*Note!* The functionality of the dialing options in the **LOCKS** menu varies according to country.



## Auto Lock

When selected, the phone is automatically locked from making calls each time you turn the phone on. To unlock the phone, enter the security code.

## Dialing

You can use this option to restrict outgoing calls. Selections for this function include:

- **Allow all**  
No outgoing call restrictions.
- **Restrict all**  
Allows dialing of emergency numbers only.
- **Local + 800 # only**  
Only numbers with up to 7 digits and 10-11 digit 800 (or 888) numbers. No operator access.
- **Memory only**  
Allows calls only to numbers stored in memory. Numbers cannot be stored in memory while this restriction is enabled.
- **Local + 800 # + mem only**  
Only the combination of the two preceding options can be dialed.
- **Restrict Internat.**  
Only 11 digits or fewer can be dialed, and operator access is restricted.
- **Restrict 900 #**  
No calls allowed with the area codes 900. No operator access.

- **Restrict Operator**  
Allows all calls except for operator access (dialing 0).

## Call Cards

You can allow or restrict the use of calls using a calling card or calling card features.

## Receiving

You can allow or restrict incoming phone calls. If selected, the phone does not ring incoming calls.

## Sec. Code

You can change your four-digit security code. The factory-set code is 0000. You are prompted to repeat the code for verification.

## Call Cards Menu

---

The **CALL CARDS** menu contains the following choices for storing two calling card numbers to use for making long distance phone calls.

## Calling Card Setup

Make sure you have the following:

- Calling Card Access Number (a number provided by your long distance service provider)
- Verification Number (a number you must enter to allow the calling card call to be completed)

To set up a calling card, complete the following steps.

- 1 Press **▼** to enter menu mode.
- 2 Press **⬅** or **➡** until the menu pointer is beside **Call Cards**.
- 3 Press **YES** to open the **CALL CARDS** menu. You are prompted to enter your security code.
- 4 Press **⬅** or **➡** until the menu pointer is beside **Card1Setup** or **Card2Setup**.
- 5 Press **YES** to enter card setup.
- 6 Press **⬅** or **➡** until the menu pointer is beside **Access No.**.
- 7 Press **YES**.
- 8 Enter the calling card access number.
- 9 Press **YES** to store the number.
- 10 Press **▼** to move to **Ver. no.**.
- 11 Enter the verification number.
- 12 Press **YES** to store the number.

### Changing the Flow Order

If your long distance service provider requires a different dialing, you may need to change the **Flow Order**. Flow order determines when the numbers are transmitted by your phone. The default flow is:

- Access number
- Stop
- Number you are calling

- Stop
- Verification number

To change the flow order:

- 1 From the previous Step 12, press **▼** until the menu pointer is beside **Flow dom.** (domestic) or **Flow int.** (international).
- 2 Press **YES**.
- 3 Press **▼** to scroll through the flow order.
- 4 To change a flow setting, press **▼** until the menu pointer is beside the setting you want to change.
- 5 Press **1** to scroll through the options for that setting.
- 6 When you have the flow order you want, press **YES** to store the selection.

### Selecting a Calling Card

You can store two calling card numbers. You select which number your phone uses through the Calling Card menu.

- 1 Press **▼** to enter menu mode.
- 2 Press **⬅** or **➡** until the menu pointer is beside **Call Cards**.
- 3 Press **YES** to open the **CALL CARDS** menu.
- 4 Press **⬅** or **➡** until the menu pointer is beside **CardSelect**.
- 5 Press **YES**.

- 6 Press **↶** or **↷** to select the card you want to use  
(Card One or Card Two) is enclosed in brackets.
- 7 Press **YES** to store your selection.

### Using a Calling Card

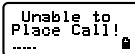


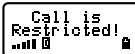
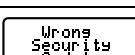
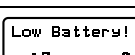

To place a call using a calling card:

- 1 Enter or recall the number you want to call.
- 2 Press and hold **YES**. The calling card number is shown in the display.
- 3 Release the key after the number has been displayed.
- 4 If you are using stops between numbers, you must press **YES** or any number key to send the next sequence of numbers. If you use pauses, the numbers are sent automatically after the specified length of time chosen in the Flow function.

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## Problems You Can Solve

### Displayed Messages and Explanations

	The signal is too weak to make a call. Try again when the signal strength is one bar or stronger.
	Your phone is searching for a wireless service provider.
	The system is busy with other calls. Wait a while and try your call again.
	You called a number for which you have set call restrictions. See the <b>LOCKS</b> menu for changing call restrictions.
	You entered an incorrect security code. Enter the correct security code.
	The battery power is low. When the phone shuts itself off, replace the battery with a fully charged one, or use an alternate power source, such as a travel charger.
	Your text message memory is full. Erase some stored messages before you can receive more messages.

### Problems and Possible Solutions

The phone does not turn ON.	Recharge or replace the battery. If you are using a battery eliminator, make sure that the battery eliminator is fully inserted into the vehicle cigarette lighter. Make sure the vehicle is supplying power to the cigarette lighter.
The phone is not ringing when a call is received.	Check the <b>SOUNDS</b> menu to make sure the phone is not set for Silent Mode.
The phone becomes warm during long calls.	This is not a problem. Because of its size, the phone may feel slightly warm during extended calls.
The battery does not seem to charge to full capacity.	Condition the battery by fully discharging and charging it three times. Or, if your phone came with a multicharger, use the conditioning function on the multicharger to condition the battery.
Calls are being dropped.	You are probably in a geographic area with minimal service. Wait until the signal strength indicator in your phone's display shows a high relative signal strength (more bars) before trying a call. Make note of geographic locations where calls are dropped and contact your service provider.

The signal strength varies.	This is a common occurrence. Transmitter sites are set in geographic areas, and coverage is not 100% all of the time. Signal strength varies as you travel between cells.
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## Technical Assistance

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For need additional information or to purchase Original Ericsson Accessories:

- In North America, call 1-800-ERICSSON (374-2776).
- In Latin America, call 1-305-755-6789.
- Elsewhere, call 1-919-472-7908.

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


**Y**  
Yes Key, 14



## Quick Reference Card


### Turn Phone ON/OFF

#### Enter Menu Mode


Press and hold   
 or lower side key  
 During a call,  
 press and hold 


### Calling

#### Answer a Call



\*Open the flip or  
 Press 

#### End a Call



\*Close the flip or  
 Press 

\*(Flip must be enabled:  5 3)


#### Recall Last Dialed No.


 or upper side key  
 to exit

#### Recall a No. from Memory

 or upper side key (enter  
 name or  to scroll list)

#### Speed Dial No. from Memory

Enter memory location No.  
 and press 

(Activate Speed Dial:  5 2 [On])

#### Super Dial No. from Memory

Press and hold memory  
 location No.

(Activate Super Dial:  5 1 [On])




#### Store Displayed No. to Scratch Pad

 1 3



#### Recall No. from Scratch Pad

 1 4









### Indicators

Call Timer  5 4 [On] or [Off]  
 Minute Minder  5 5 [On] or [Off]  
 Access Tone  5 0 [On] or [Off]

### Display

Contrast  4 3  
 Back Light  4 2  
 Language  4 5  
 (requires security code,  
 default code is 0000)

### Sounds

Mute Microphone On/Off Press and hold **CLR**  
 Mute Ringer Press a side key or   
 Ring Pulse  6 7  
 Ring Pitch  6 8  
 Ring Volume  6 9  
 Silent Mode On/Off  #  
 Earpiece Volume  6 5  
 (during a call) Press upper side key  
 to increase or lower side  
 key to decrease  
 Speaker Volume  6 6  
 Message Tone  6 2

### Dialing Codes

#### Pause Dialing




Press and hold \*

#### Stop Dialing

Press and hold #

### Message Services

#### Quick Access to Voice Mail and Text Messages

Press and hold   
 to switch between voice  
 mail and text message  
 displays  
 Press  to call

### Security

#### Lock/Unlock Keypad

 \*

#### Locks Settings

 8



<http://mobile.ericsson.com>

AE/LZT 123 5410 R1

ERICSSON 

Quick Reference Card

Using a Calling Card

- 1. Enter or recall the No. being called
- 2. Press and hold  until your calling card No. appears in the display.
- 3. If you are using stops (S) between numbers, press  to send the next sequence of numbers.

Calling Card (requires a security code)

- Select Calling Card    ➤ 9 1
- Set Up Calling Card 1   ➤ 9 2
- Set Up Calling Card 2   ➤ 9 3



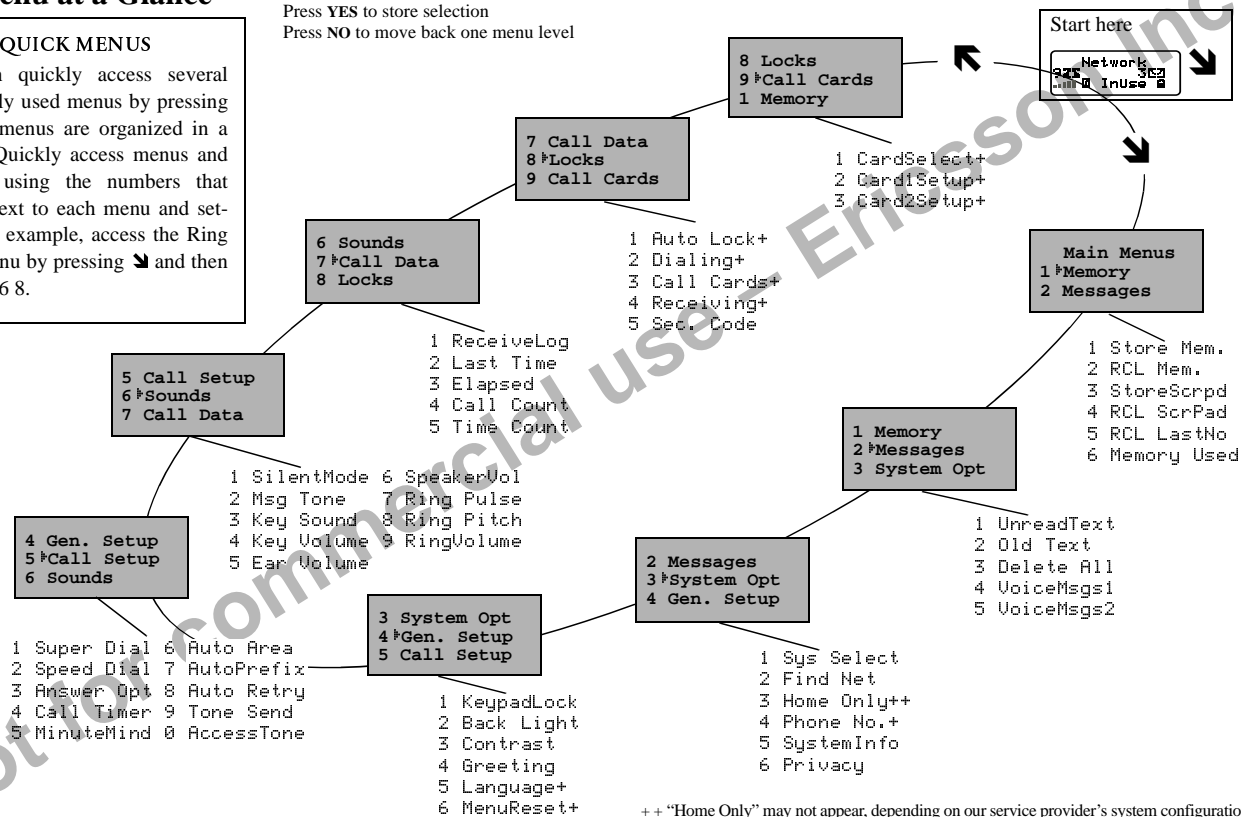
Memory	Name	Number	Memory	Name	Number
Location			Location		
1.			21.		
2.			22.		
3.			23.		
4.			24.		
5.			25.		
6.			26.		
7.			27.		
8.			28.		
9.			29.		
10.			30.		
11.			31.		
12.			32.		
13.			33.		
14.			34.		
15.			35.		
16.			36.		
17.			37.		
18.			38.		
19.			39.		
20.			40.		

## The Menu at a Glance

### QUICK MENU

You can quickly access several commonly used menus by pressing **↵**. The menus are organized in a circle. Quickly access menus and settings using the numbers that appear next to each menu and setting. For example, access the Ring Pitch menu by pressing **↵** and then entering 6 8.

Press CLR to exit Menus  
Press YES to store selection  
Press NO to move back one menu level



++ "Home Only" may not appear, depending on our service provider's system configuration.  
+ These menu items require you to enter your security code for access.